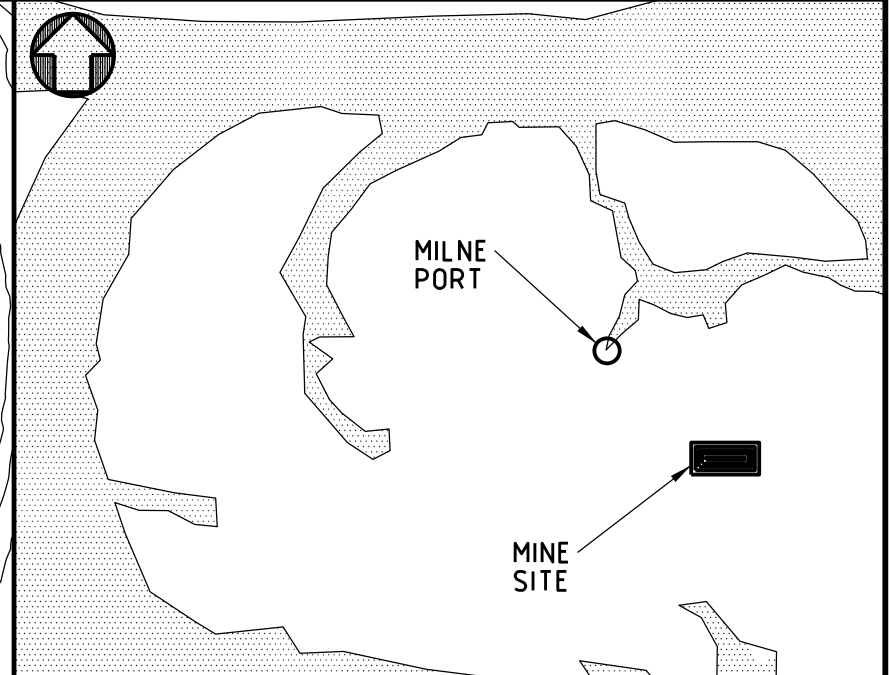
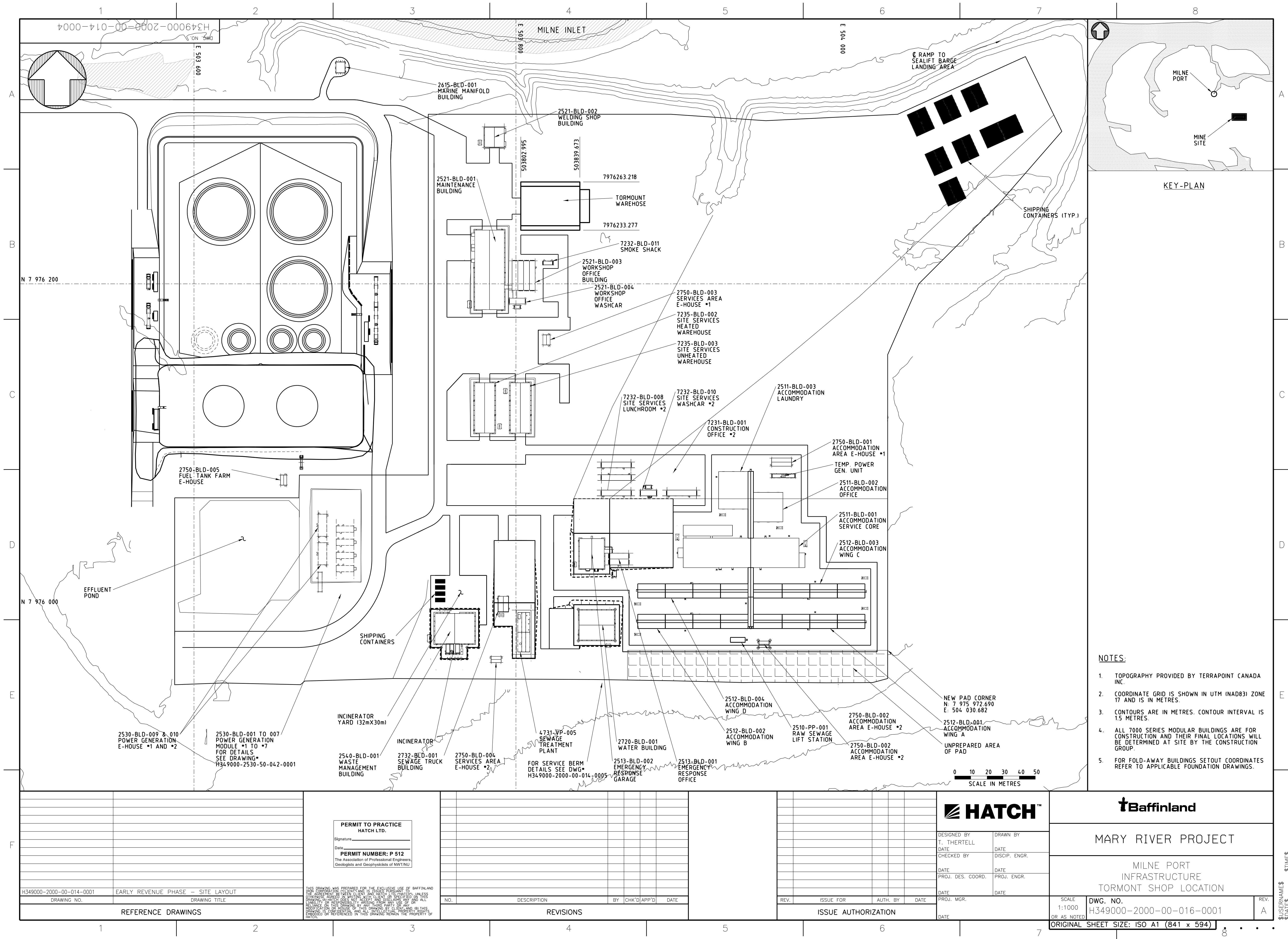


Appendix C.3: Toromont Building Footprint

Milne Port Infrastructure Toromont Shop Location (H349000-2000-00-016-0001, Rev. A)
Toromont Building Milne Port – Survey Dimensions Sketch
Project Wide Toromont Building Slab on Grade Plan (H349000-7234-30-035-000, Rev. A)



KEY-PLAN

- NOTES:
1. TOPOGRAPHY PROVIDED BY TERRAPOINT CANADA INC.
 2. COORDINATE GRID IS SHOWN IN UTM (NAD83) ZONE 17 AND IS IN METRES.
 3. CONTOURS ARE IN METRES. CONTOUR INTERVAL IS 1.5 METRES.
 4. ALL 7000 SERIES MODULAR BUILDINGS ARE FOR CONSTRUCTION AND THEIR FINAL LOCATIONS WILL BE DETERMINED AT SITE BY THE CONSTRUCTION GROUP.
 5. FOR FOLD-AWAY BUILDINGS SETOUT COORDINATES REFER TO APPLICABLE FOUNDATION DRAWINGS.



MARY RIVER PROJECT

MILNE PORT
INFRASTRUCTURE
TORMOUNT SHOP LOCATION

H349000-2000-00-014-0001	EARLY REVENUE PHASE — SITE LAYOUT
DRAWING NO.	DRAWING TITLE
REFERENCE DRAWINGS	

PERMIT TO PRACTICE
HATCH LTD.
Signature _____
Date _____
PERMIT NUMBER: P 512
The Association of Professional Engineers
Geologists and Geophysicists of NWT/NU

THIS DRAWING WAS PREPARED FOR THE EXCLUSIVE USE OF BAFFINLAND
UNDER CONTRACT AND IS ISSUED PURSUANT TO
THE AGREEMENT BETWEEN CLIENT AND HATCH LTD. HATCH LTD. IS NOT
RESPONSIBLE FOR ANY USE OF THIS DRAWING FOR ANY OTHER PURPOSE
UNLESS OTHERWISE AGREED IN WRITING. ANY SUCH USE OF THIS
DRAWING WITHOUT THE WRITTEN CONSENT OF HATCH LTD. IS A VIOLATION
OF THE AGREEMENT AND HATCH LTD. WILL BE HELD RESPONSIBLE FOR
ANY SUCH USE OF THIS DRAWING. HATCH LTD. IS NOT RESPONSIBLE
FOR ANY USE OF THIS DRAWING FOR ANY OTHER PURPOSE UNLESS
OTHERWISE AGREED IN WRITING. ANY SUCH USE OF THIS DRAWING
WITHOUT THE WRITTEN CONSENT OF HATCH LTD. IS A VIOLATION OF
THE AGREEMENT AND HATCH LTD. WILL BE HELD RESPONSIBLE FOR
ANY SUCH USE OF THIS DRAWING.

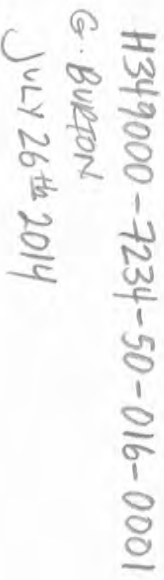
NO.	DESCRIPTION	BY	CHK'D	APP'D	DATE
REVISIONS					

REV.	ISSUE FOR	AUTH. BY	DATE
ISSUE AUTHORIZATION			


DESIGNED BY T. THERTELL	DRAWN BY
CHECKED BY	DATE
DATE	DISCIP. ENGR.
PROJ. DES. COORD.	DATE
DATE	PROJ. ENGR.
DATE	DATE
PROJ. MGR.	DATE

SCALE
1:1000
OR AS NOTED
DWG. NO.
H349000-2000-00-016-0001
ORIGINAL SHEET SIZE: ISO A1 (841 x 594)

USER NAMES \$ TIMES \$

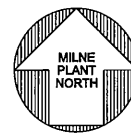
\Rightarrow 

INTERSECTION.

	<h1 style="text-align: center;">CALCULATION SHEET</h1>				SHEET NO. _____ OF _____
DESCRIPTION	PROJECT NO	MADE BY	CHECKED BY	DATE	DATE

H349000-7235-30-035-0005

ON DWG



1000 NTS

1000 NTS

1000 NTS

1000 NTS

1000 NTS

1000 NTS

1000 NTS

1000 NTS

1000 NTS

1000 NTS

1000 NTS

1000 NTS

STEP DOWN FOR MANDOOK

EDGE OF SEA CANS
EL TO SUIT SEA CAN FLOOR

HP RL 0.170

450x600x450 DEEP
SUMP PIT TYPE-3
SEE DWG. H349000-1000-30-041-0008.
EL@EDGE OF SUMP
EL-0.045

TOC RL 0.105

HP RL 0.170

1000 NTS

1000 NTS

1000 NTS

1000 NTS

1000 NTS

1000 NTS

1000 NTS

1000 NTS

1000 NTS

1000 NTS

1000 NTS

1000 NTS

1000 NTS

1000 NTS

1000 NTS

1000 NTS

1000 NTS

1000 NTS

1000 NTS

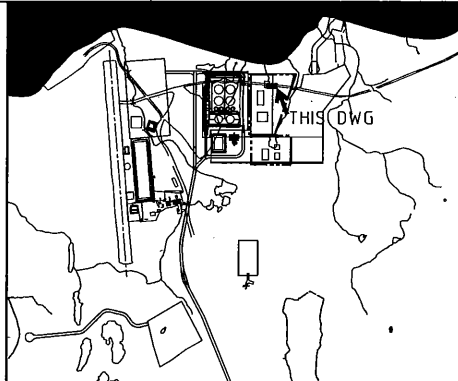
1000 NTS

1000 NTS

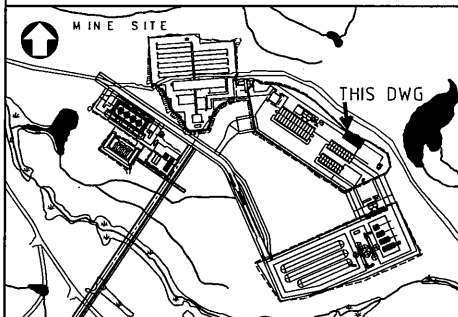
1000 NTS

1000 NTS

1000 NTS



MILNE KEY PLAN



MILNE KEY PLAN

NOTES:

- SEE DWG. H349000-0000-30-041-0001 FOR NOTES.
- ALL STRUCTURAL STEEL BY OTHERS.
- PROVIDE SAFE ACCESS TO ALL MAN DDORS, INTERNAL AND EXTERNAL.
- FOR THE PURPOSE OF THIS DWG., RL DENOTES RELATIVE ELEVATION. RL 0.000 REPRESENTS THE UNDERSIDE OF PERIMETER SEA CANS.
- FOR NON-FROST SUSCEPTIBLE BACKFILL REFER TO CIVIL DWG. H349000-1000-10-041-0001.

ABBREVIATIONS:

LPFS LOW POINT FINISH SURFACE

EDGE OF SEA CANS
EL TO SUIT SEA CAN FLOOR

TOROMONT BUILDINGS SLAB ON GRADE PLAN

ALL SLABS SHALL BE UNIFORM THICKNESS,
ONLY BACKFILL SHALL BE SLOPED.
• REPRESENTS COORDINATES FOR MINE SITE LOCATION

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

H349000-7234-30-035-0001

FS01

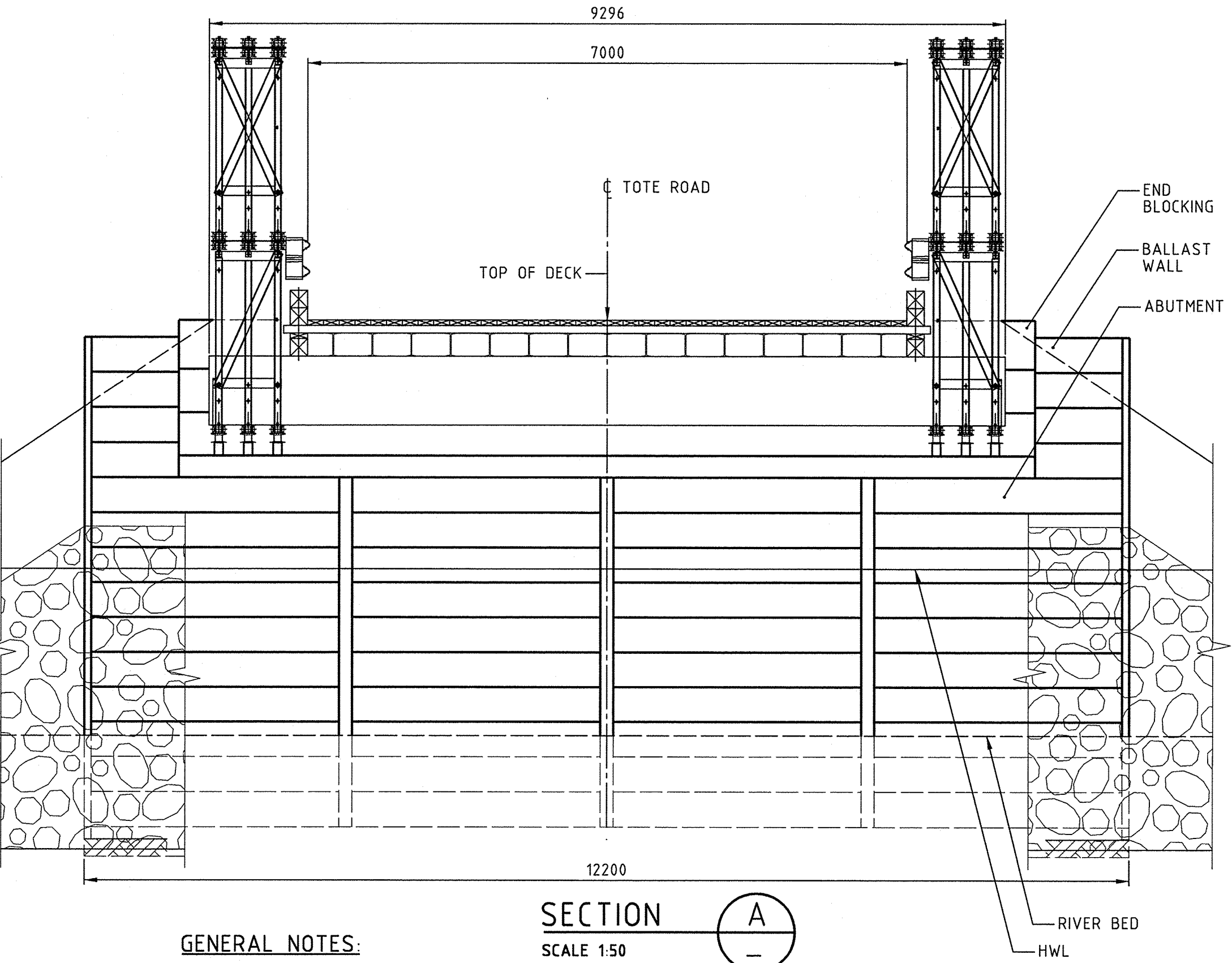
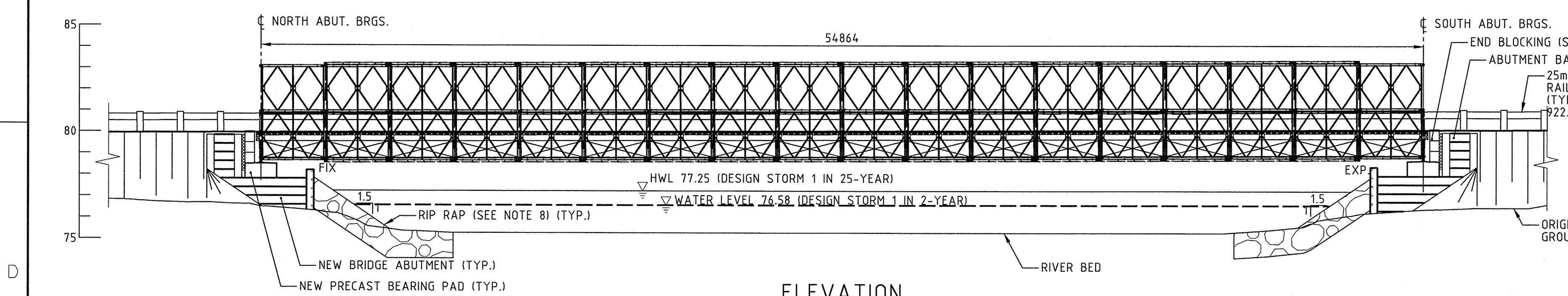
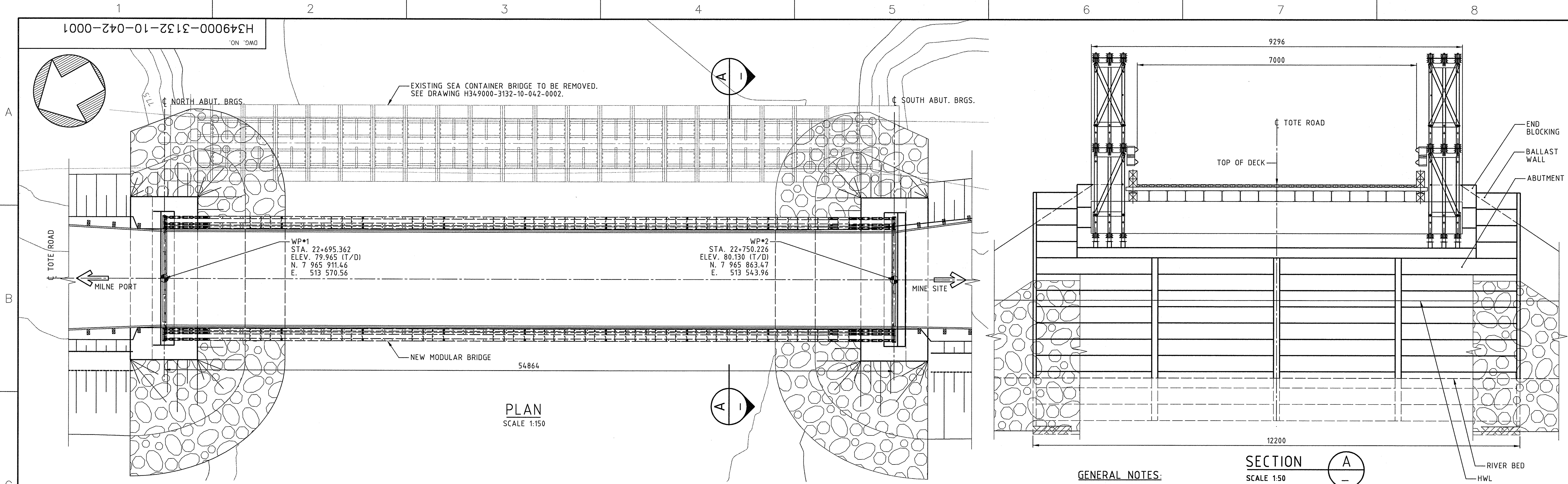
Appendix C.4: Tote Road Bridges

Tote Road River Crossing at STA.17 General Arrangement (H349000-3132-10-042-0001, Rev. 0)

Tote Road River Crossing at STA.62 General Arrangement (H349000-3133-10-042-0001, Rev. 0)

Tote Road River Crossing at STA.80 General Arrangement (H349000-3134-10-042-0001, Rev. 0)

Tote Road River Crossing at STA.97 General Arrangement (H349000-3135-10-042-0001, Rev. 0)



GENERAL NOTES:

1. CLASS OF CONCRETE:
PRECAST BEARING PAD AND END BLOCKING.....30MPa
REMAINDER.....30MPa
2. CLEAR COVER TO REINFORCING STEEL:
PRECAST BEARING PAD.....70±20
UNLESS OTHERWISE NOTED.
3. REINFORCING STEEL SHALL BE GRADE 400W.
4. UNLESS SHOWN OTHERWISE, TENSION LAP SPLICES SHALL BE CLASS B.
5. BAR HOOKS, WHERE REQUIRED, SHALL BE MINIMUM LENGTH AND STIRRUPS SHALL HAVE MINIMUM HOOKS AS PER MANUFACTURER'S GUIDELINES UNLESS INDICATED OTHERWISE.
6. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
7. ALL ELEVATIONS AND COORDINATES ARE IN METERS UNLESS NOTED OTHERWISE.
8. SEE DRAWING H349000-3130-10-035-0001 FOR ABUTMENT, RIP RAP AND END BLOCKING DETAILS.
9. REFER TO BRIDGE AND ABUTMENT SUPPLIERS' DRAWINGS FOR MORE DETAILS.
10. THE BRIDGE AND ABUTMENT IS DESIGNED FOR ONE DESIGN TRUCK PASSING OVER THE BRIDGE AT EACH TIME.

CONSTRUCTION NOTES

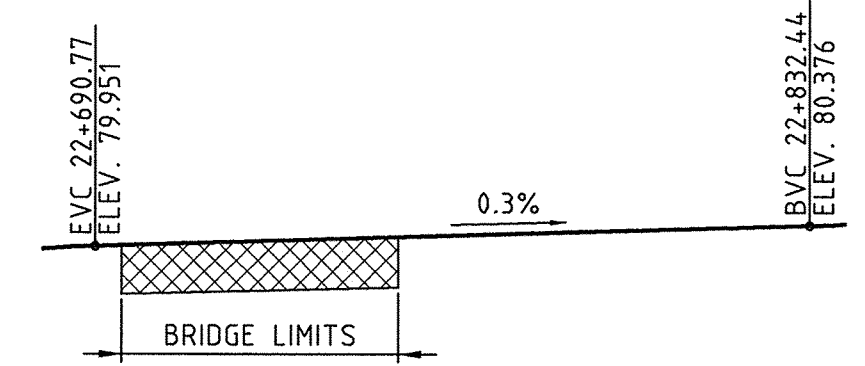
1. THE MODULAR BRIDGE, LAUNCHING NOSE, ROLLERS, PRECAST CONCRETE BEARING PAD, END BLOCKING, STEEL BEAM GUIDE RAIL SYSTEM AND BRIDGE ABUTMENT COMPONENTS TO BE SUPPLIED BY BAFFINLAND (THE OWNER) ARE TO BE SHIPPED TO THE CROSSING SITE.
2. ALL BACKFILL MATERIALS AND RIP RAP IS SUPPLIED BY BAFFINLAND (THE OWNER)
3. ALL EXCAVATION ON SITE IS TO BE DONE BY OTHERS.
4. THE CONTRACTOR IS RESPONSIBLE FOR ERECTING ALL COMPONENTS OF THE MODULAR BRIDGE AND BRIDGE ABUTMENTS AND BACKFILLING IN ACCORDANCE WITH THE MANUFACTURERS' SPECIFICATIONS.
5. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLING THE PRECAST CONCRETE BEARING PAD, END BLOCKING AND STEEL BEAM GUIDE RAIL SYSTEM.
6. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS OF THE PROPOSED WORK AND ALL DETAILS ON SITE AND REPORT ANY DISCREPANCIES TO THE CONTRACT ADMINISTRATOR BEFORE PROCEEDING WITH THE WORK.
7. THE CONTRACTOR SHALL ENSURE THE STABILITY OF ALL COMPONENTS DURING HANDLING, TRANSPORTATION AND ERECTION UNTIL THE COMPONENTS ARE IN THE FINAL LOCATION WITH ALL PERMANENT BRACING, CONNECTIONS AND SUPPORTS IN PLACE.
8. GRADE AND ADD FILL ON THE EXISTING TOTE ROAD AS REQUIRED TO FACILITATE ONE WAY TRAFFIC ACROSS THE SEQUENCE DURING NEW BRIDGE LAUNCHING.

ABBREVIATION:

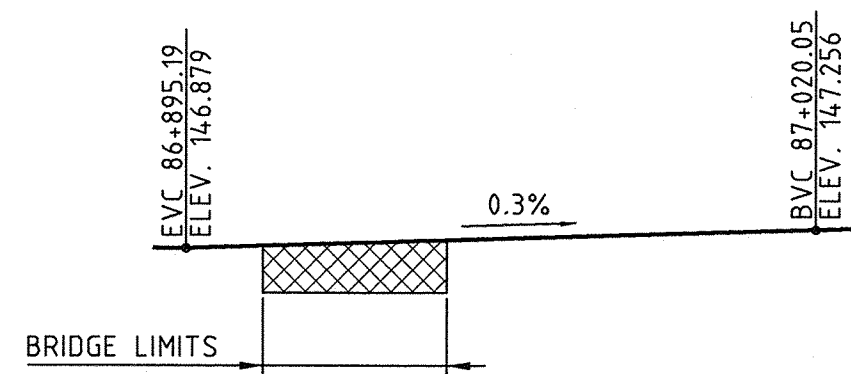
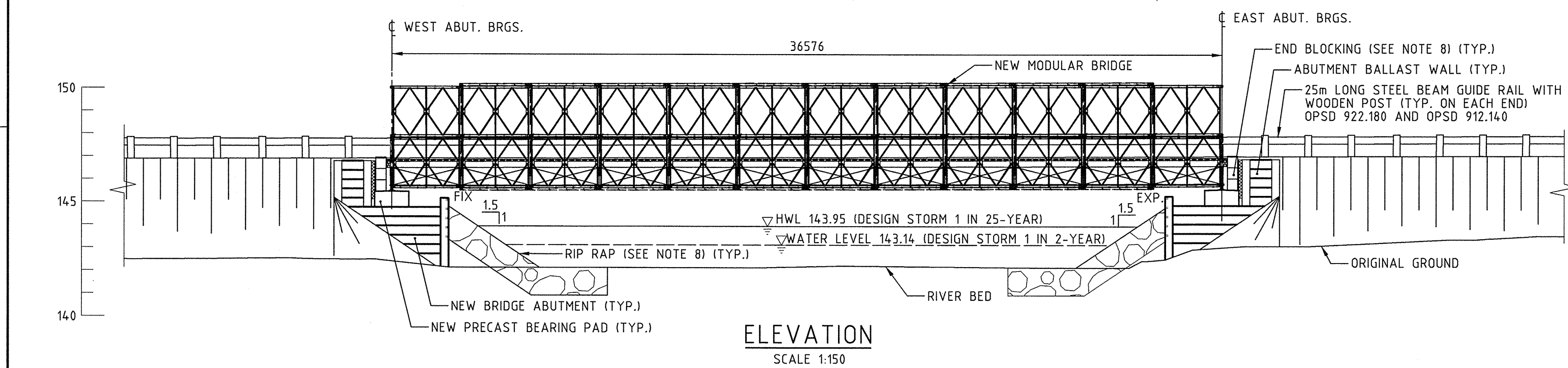
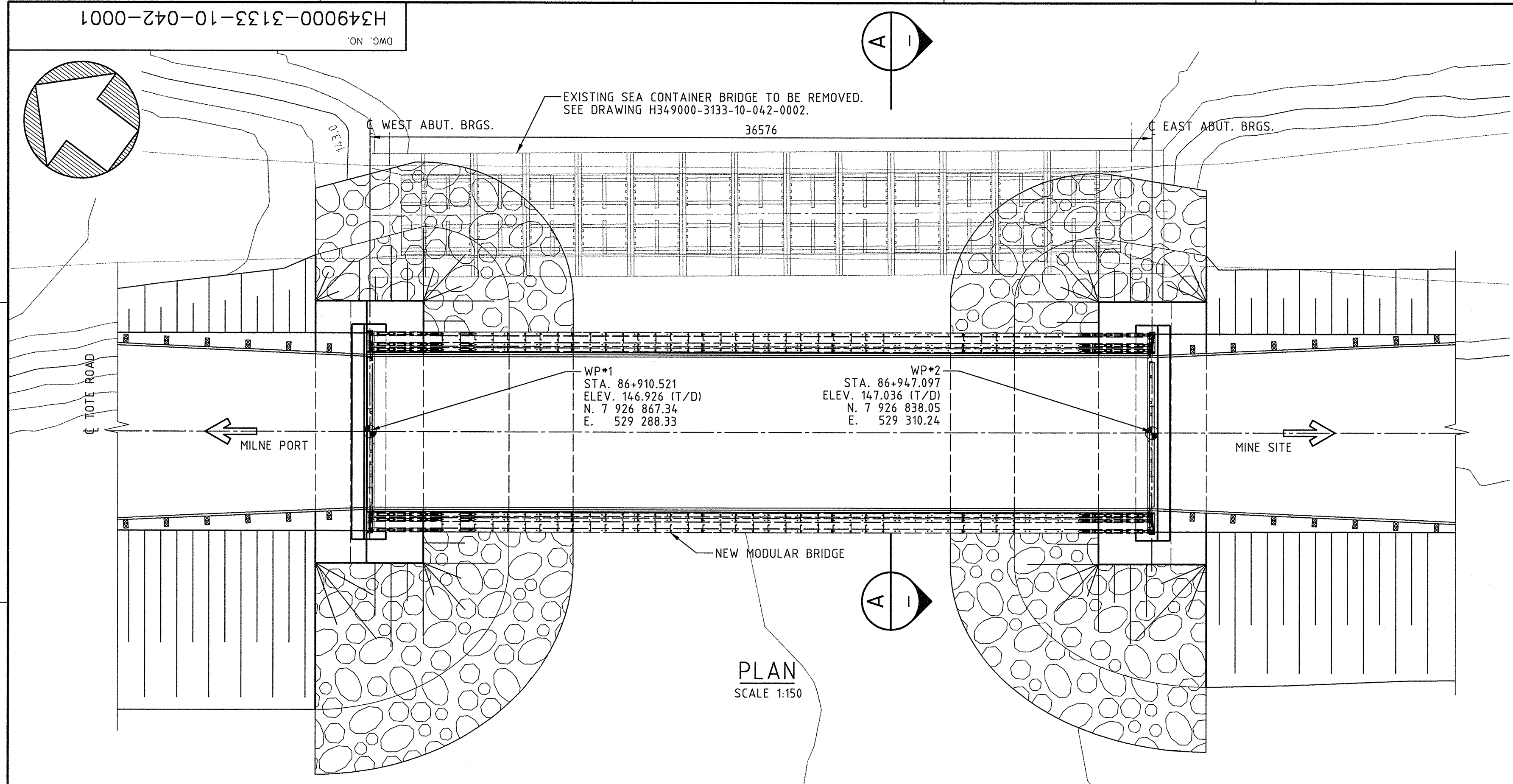
- | | |
|-------|------------------|
| ABUT. | ABUTMENT |
| BRGS. | BEARINGS |
| CL | CENTRELINE |
| ELEV. | ELEVATION |
| EXP. | EXPANSION |
| HWL | HIGH WATER LEVEL |
| NTS | NOT TO SCALE |
| TYP. | TYPICAL |
| T/D | TOP OF DECK |
| WP | WORKING POINT |

FOR CONSTRUCTION

PROFILE ALONG CENTERLINE OF TOTE ROAD
NTS



PERMIT TO PRACTICE HATCH LTD. Signature: <i>[Signature]</i> Date: 30 Aug 13 PERMIT NUMBER: P 512 The Association of Professional Engineers, Geologists and Geophysicists of NWITNU		REGISTERED PROFESSIONAL ENGINEER <i>[Signature]</i> NTNU		HATCH		Baffinland	
DRAWING NO.		DRAWING TITLE		DESIGNED BY L. GUO DATE 2013-08-23		DRAWN BY C. REN DATE 2013-08-23	
REFERENCE DRAWINGS		REVISIONS		CHECKED BY M. KARABELAN DATE 2013-08-23		DISCIP. ENGR J. TOLOVSKI DATE 2013-08-23	
				PROJ. DES. COORD T. THERTELL DATE 2013-08-23		PROJ. ENGR J. CLELAND DATE 2013-08-23	
				ISSUE FOR CONSTRUCTION		SCALE DWG. NO. H349000-3132-10-042-0001	
				AUTH. BY S. PERRY DATE 2013-08-23		REV. 0	

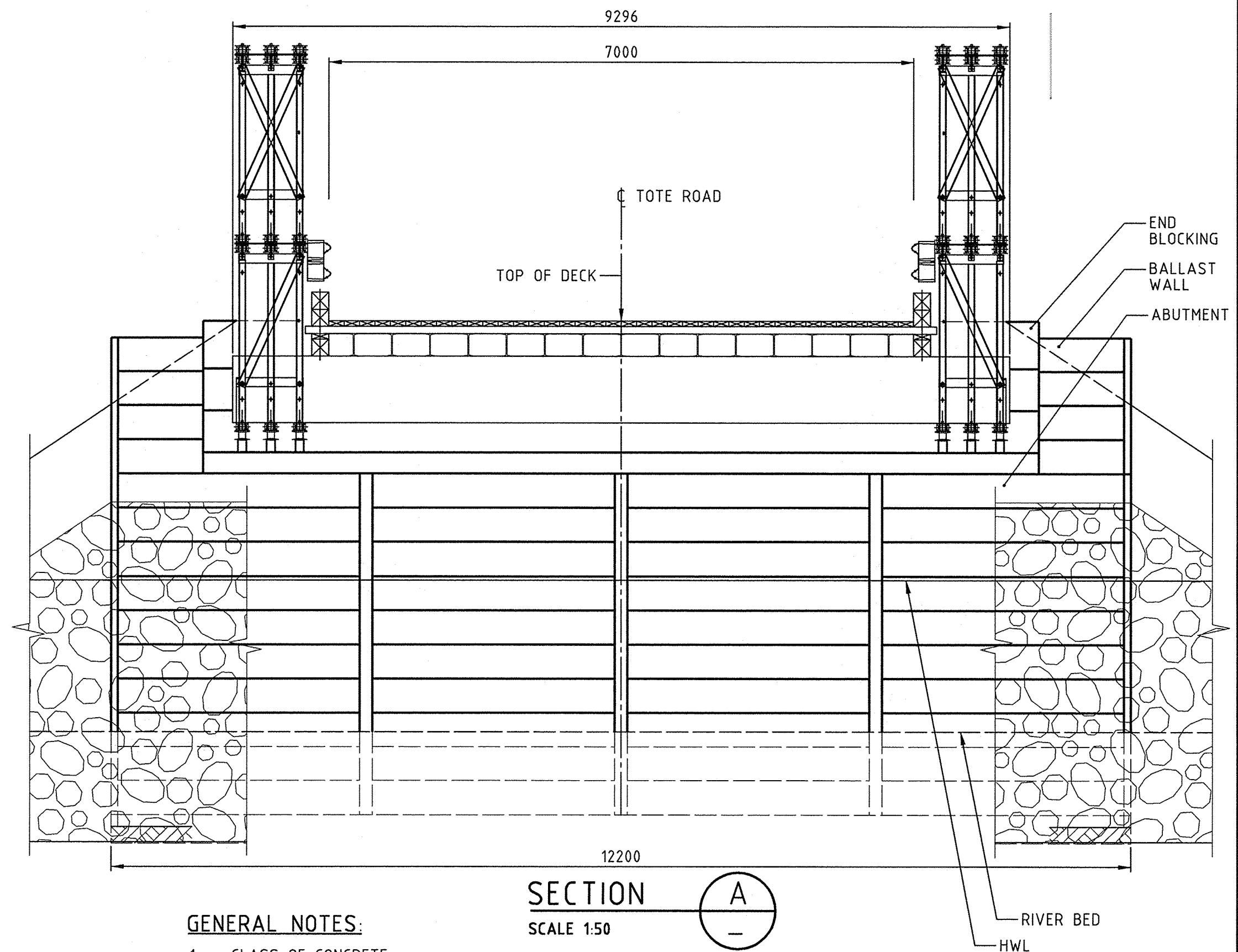


PROFILE ALONG CENTERLINE OF TOTE ROAD

ABBREVIATION:

ABUT.	ABUTMENT
BRGS.	BEARINGS
CL	CENTRELINE
ELEV.	ELEVATION
EXP.	EXPANSION
HWL	HIGH WATER LEVEL
NTS	NOT TO SCALE
TYP.	TYPICAL
T/D	TOP OF DECK
WP	WORKING POINT

FOR CONSTRUCTION



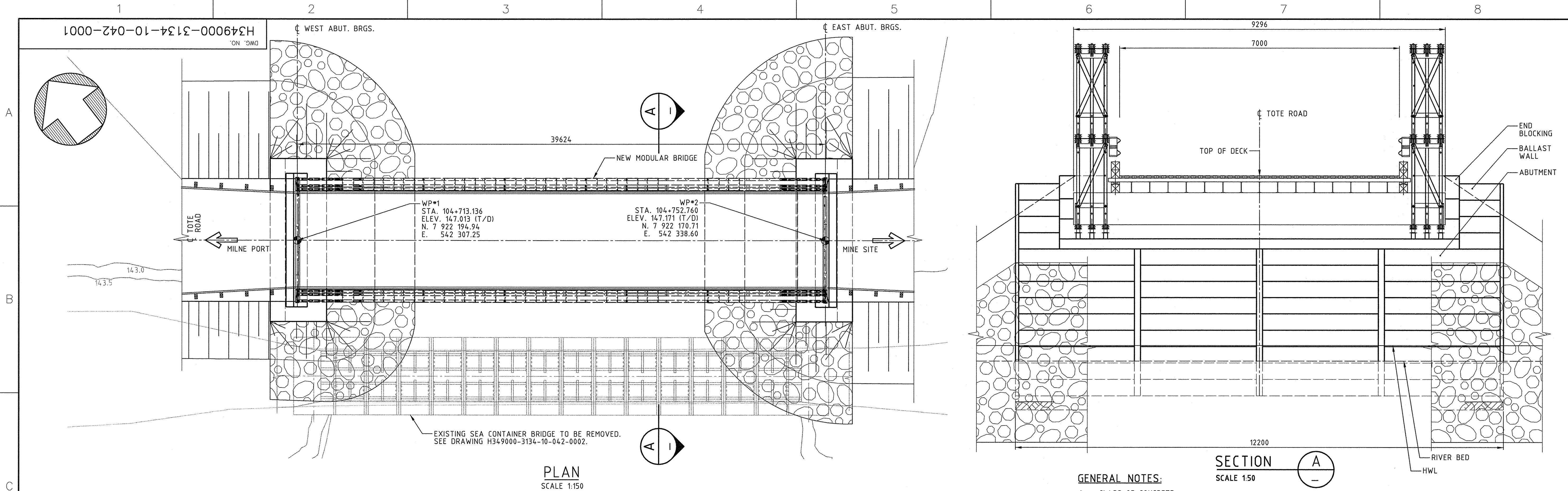
GENERAL NOTES:

- CLASS OF CONCRETE:
PRECAST BEARING PAD AND END BLOCKING.....30MPa
REMAINDER.....30MPa
- CLEAR COVER TO REINFORCING STEEL:
PRECAST BEARING PAD.....70±20
UNLESS OTHERWISE NOTED.
- REINFORCING STEEL SHALL BE GRADE 400W.
- UNLESS SHOWN OTHERWISE, TENSION LAP SPICES SHALL BE CLASS B.
- BAR HOOKS, WHERE REQUIRED, SHALL BE MINIMUM LENGTH AND STIRRUPS SHALL HAVE MINIMUM HOOKS AS PER MANUFACTURER'S GUIDELINES UNLESS INDICATED OTHERWISE.
- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
- ALL ELEVATIONS AND COORDINATES ARE IN METERS UNLESS NOTED OTHERWISE.
- SEE DRAWING H349000-3130-10-035-0001 FOR ABUTMENT, RIP RAP AND END BLOCKING DETAILS.
- REFER TO BRIDGE AND ABUTMENT SUPPLIERS' DRAWINGS FOR MORE DETAILS.
- THE BRIDGE AND ABUTMENT IS DESIGNED FOR ONE DESIGN TRUCK PASSING OVER THE BRIDGE AT EACH TIME.

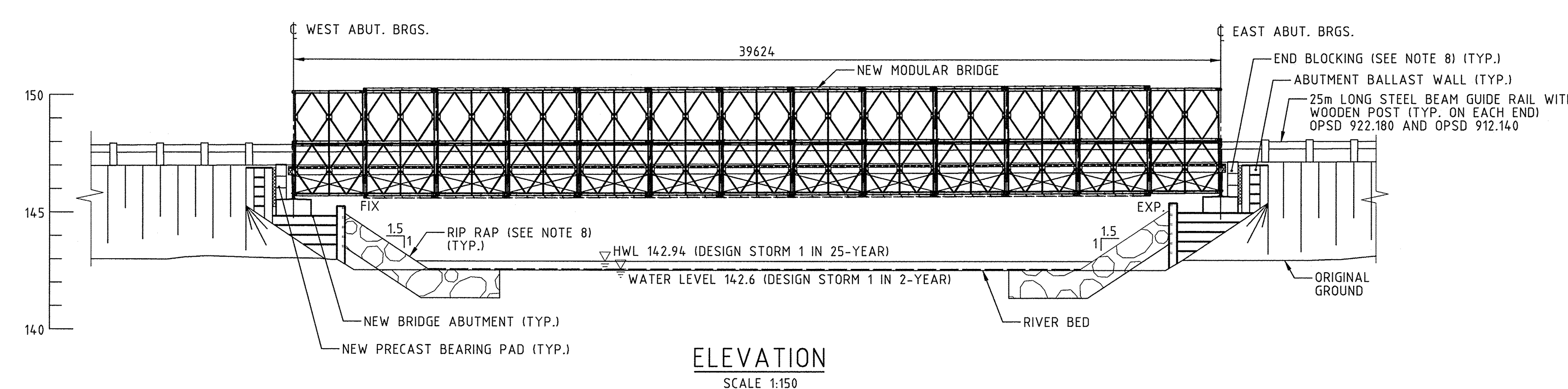
CONSTRUCTION NOTES

- THE MODULAR BRIDGE, LAUNCHING NOSE, ROLLERS, PRECAST CONCRETE BEARING PAD, END BLOCKING, STEEL BEAM GUIDE RAIL SYSTEM AND BRIDGE ABUTMENT COMPONENTS TO BE SUPPLIED BY BAFFINLAND (THE OWNER) ARE TO BE SHIPPED TO THE CROSSING SITE.
- ALL BACKFILL MATERIALS AND RIP RAP IS SUPPLIED BY BAFFINLAND (THE OWNER)
- ALL EXCAVATION ON SITE IS TO BE DONE BY OTHERS.
- THE CONTRACTOR IS RESPONSIBLE FOR ERECTING ALL COMPONENTS OF THE MODULAR BRIDGE AND BRIDGE ABUTMENTS AND BACKFILLING IN ACCORDANCE WITH THE MANUFACTURERS' SPECIFICATIONS.
- THE CONTRACTOR IS RESPONSIBLE FOR INSTALLING THE PRECAST CONCRETE BEARING PAD, END BLOCKING AND STEEL BEAM GUIDE RAIL SYSTEM.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS OF THE PROPOSED WORK AND ALL DETAILS ON SITE AND REPORT ANY DISCREPANCIES TO THE CONTRACT ADMINISTRATOR BEFORE PROCEEDING WITH THE WORK.
- THE CONTRACTOR SHALL ENSURE THE STABILITY OF ALL COMPONENTS DURING HANDLING, TRANSPORTATION AND ERECTION UNTIL THE COMPONENTS ARE IN THE FINAL LOCATION WITH ALL PERMANENT BRACING, CONNECTIONS AND SUPPORTS IN PLACE.
- GRADE AND ADD FILL ON THE EXISTING TOTE ROAD AS REQUIRED TO FACILITATE ONE WAY TRAFFIC ACROSS THE SEQUENCE DURING NEW BRIDGE LAUNCHING.

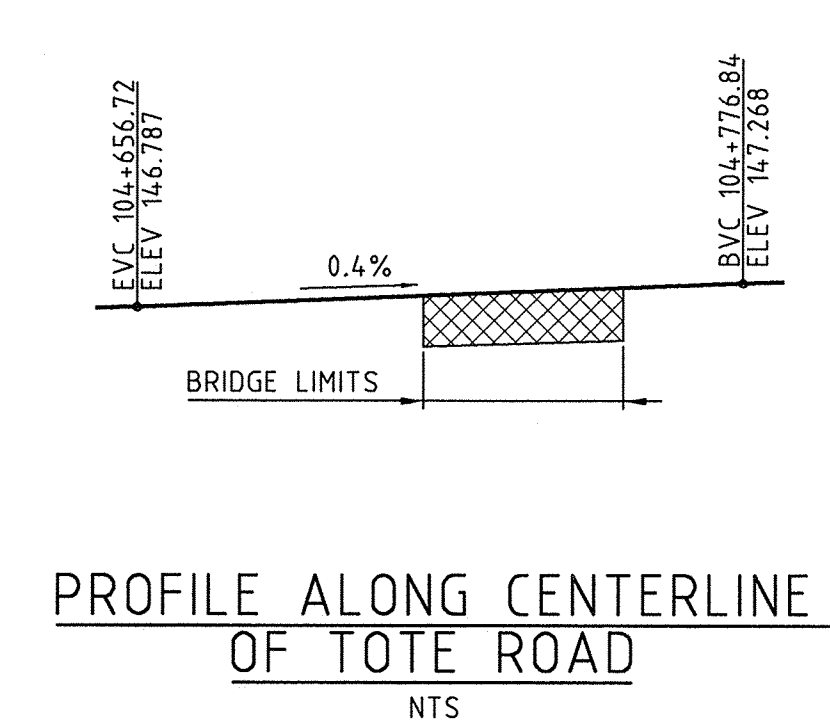
DRAWING NO.		DRAWING TITLE		REFERENCE DRAWINGS	
1		2		3	
4		5		6	
7		8		9	
10		11		12	
13		14		15	
16		17		18	
19		20		21	
22		23		24	
25		26		27	
28		29		30	
31		32		33	
34		35		36	
37		38		39	
40		41		42	
43		44		45	
46		47		48	
49		50		51	
52		53		54	
55		56		57	
58		59		60	
61		62		63	
64		65		66	
67		68		69	
70		71		72	
73		74		75	
76		77		78	
79		80		81	
82		83		84	
85		86		87	
88		89		90	
91		92		93	
94		95		96	
97		98		99	
100		101		102	
103		104		105	
106		107		108	
109		110		111	
112		113		114	
115		116		117	
118		119		120	
121		122		123	
124		125		126	
127		128		129	
130		131		132	
133		134		135	
136		137		138	
139		140		141	
142		143		144	
145		146		147	
148		149		150	
151		152		153	
154		155		156	
157		158		159	
160		161		162	
163		164		165	
166		167		168	
169		170		171	
172		173		174	
175		176		177	
178		179		180	
181		182		183	
184		185		186	
187		188		189	
190		191		192	
193		194		195	
196		197		198	
199		200		201	
202		203		204	
205		206		207	
208		209		210	
211		212		213	
214		215		216	
217		218		219	
220		221		222	
223		224		225	
226		227		228	
229		230		231	
232		233		234	
235		236		237	
238		239		240	
241		242		243	
244		245		246	
247		248		249	
250		251		252	
253		254		255	
256		257		258	
259		260		261	
262		263		264	
265		266		267	
268		269		270	
271		272		273	
274		275		276	
277		278		279	
280		281		282	
283		284		285	
286		287		288	
289		290		291	
292		293		294	
295		296		297	
298		299		300	
301		302		303	
304		305		306	
307		308		309	
310		311		312	
313		314		315	
316		317		318	
319		320		321	
322		323		324	
325		326		327	
328		329		330	
331		332		333	
334		335		336	
337		338		339	
340		341		342	
343		344		345	
346		347		348	
349		350		351	
352		353		354	
355		356		357	
358		359		360	
361		362		363	
364		365		366	
367		368		369	
370		371		372	
373		374		375	
376		377		378	
379		380		381	
382		383		384	
385		386		387	
388		389		390	
391		392		393	
394		395		396	
397		398		399	
400		401		402	
403		404		405	
406		407		408	
409		410		411	
412		413		414	
415		416		417	
418		419		420	
421		422		423	
424		425		426	
427		428		429	
430		431		432	
433		434		435	
436		437		438	
439		440		441	
442		443		444	
445		446		447	
448		449		450	
451		452		453	
454		455		456	
457		458		459	
460		461		462	
463		464		465	
466		467		468	
469		470		471	
472		473		474	
475		476		477	
478		479		480	
481		482		483	
484		485		486	
487		488		489	
490		491		492	
493		494		495	
496		497		498	
499		500		501	
502		503		504	
505		506		507	
508		509		510	
511		512		513	
514		515		516	
517		518		519	
520		521		522	
523		524		525	
526		527		528	
529		530		531	
532		533		534	
535		536		537	
538		539		540	
541		542		543	
544		545		546	
547		548		549	
550		551		552	
553		554		555	
556		557		558	
559		560		561	
562		563		564	
565		566		567	
568		569		570	
571		572		573	
574		575		576	
577		578		579	
580		581		582	
583		584		585	
586		587		588	
589		590		591	
592		593		594	
595		596		597	
598		599		600	
601		602		603	
604		605		606	
607		608		609	
610		611		612	
613		614		615	
616		617		618	
619		620		621	
622		623		624	
625		626		627	
628		629		630	
631		632		633	
634		635		636	
637		638		639	
640		641		642	
643		644		645	
646		647		648	
649		650		651	
652		653		654	
655		656		657	
658		659		660	
661		662		663	
664		665		666	
667		668		669	
670		671		672	
673		674		675	
676		677		678	
679		680		681	
682		683		684	
685		686		687	
688		689		690	
691		692		693	
694		695		696	
697		698		699	
700		701		702	
703		704		705	
706		707		708	
709		710		711	
712		713		714	
715		716		717	
718		719		720	
721		722		723	
724		725		726	
727		728		729	
730		731		732	
733		734		735	
736		737		738	
739		740		741	
742		743		744	
745		746		747	
748		749		750	
751		752		753	
754		755		756	
757		758		759	
760		761		762	
763		764		765	
766		767		768	
769		770		771	
772		773		774	
775		776		777	
778		779		780	
781		782		783	
784		785		786	
787		788		789	
790		791		792	
793		794		795	
796		797		798	
799		800		801	
802		803		804	
805		806		807	
808		809		810	
811		812		813	
814		815		816	
817		818		819	
820		821		822	
823		824		825	
826		827		828	
829		830		831	
832		833		834	
835		836		837	
838		839		840	
841		842		843	
844		845		846	
847		848		849	
850		851		852	
853					



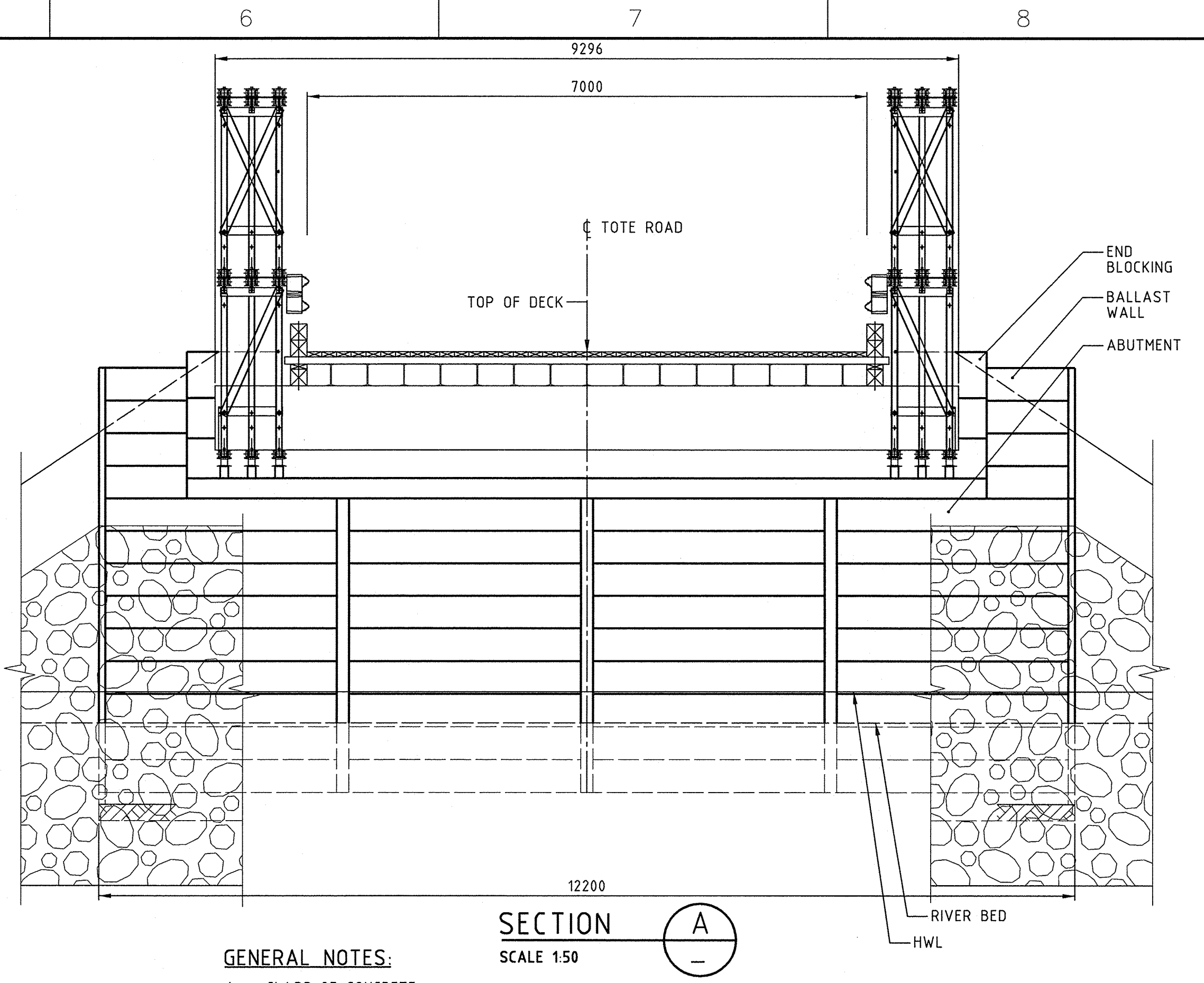
PLAN
SCALE 1:150



ELEVATION
SCALE 1:150



PROFILE ALONG CENTERLINE
OF TOTE ROAD
NTS



SECTION A
SCALE 1:50

GENERAL NOTES:

- CLASS OF CONCRETE:
PRECAST BEARING PAD AND END BLOCKING.....30MPa
REMAINDER.....30MPa
- CLEAR COVER TO REINFORCING STEEL:
PRECAST BEARING PAD.....70+20
UNLESS OTHERWISE NOTED.
- REINFORCING STEEL SHALL BE GRADE 400W.
- UNLESS SHOWN OTHERWISE, TENSION LAP SPLICES SHALL BE CLASS B.
- BAR HOOKS, WHERE REQUIRED, SHALL BE MINIMUM LENGTH AND STIRRUPS SHALL HAVE MINIMUM HOOKS AS PER MANUFACTURER'S GUIDELINES UNLESS INDICATED OTHERWISE.
- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
- ALL ELEVATIONS AND COORDINATES ARE IN METERS UNLESS NOTED OTHERWISE.
- SEE DRAWING H349000-3130-10-035-0001 FOR ABUTMENT, RIP RAP AND END BLOCKING DETAILS.
- REFER TO BRIDGE AND ABUTMENT SUPPLIERS' DRAWINGS FOR MORE DETAILS.
- THE BRIDGE AND ABUTMENT IS DESIGNED FOR ONE DESIGN TRUCK PASSING OVER THE BRIDGE AT EACH TIME.

CONSTRUCTION NOTES

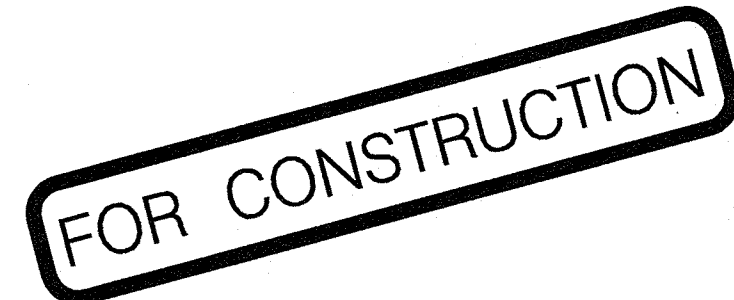
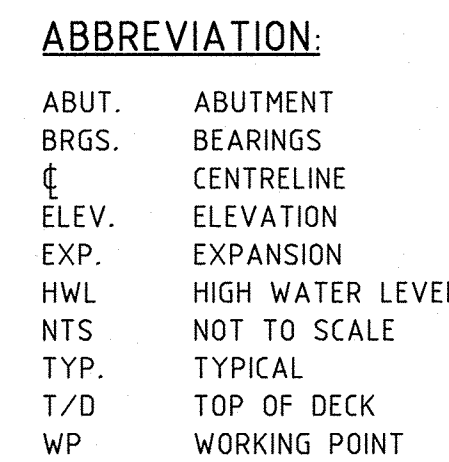
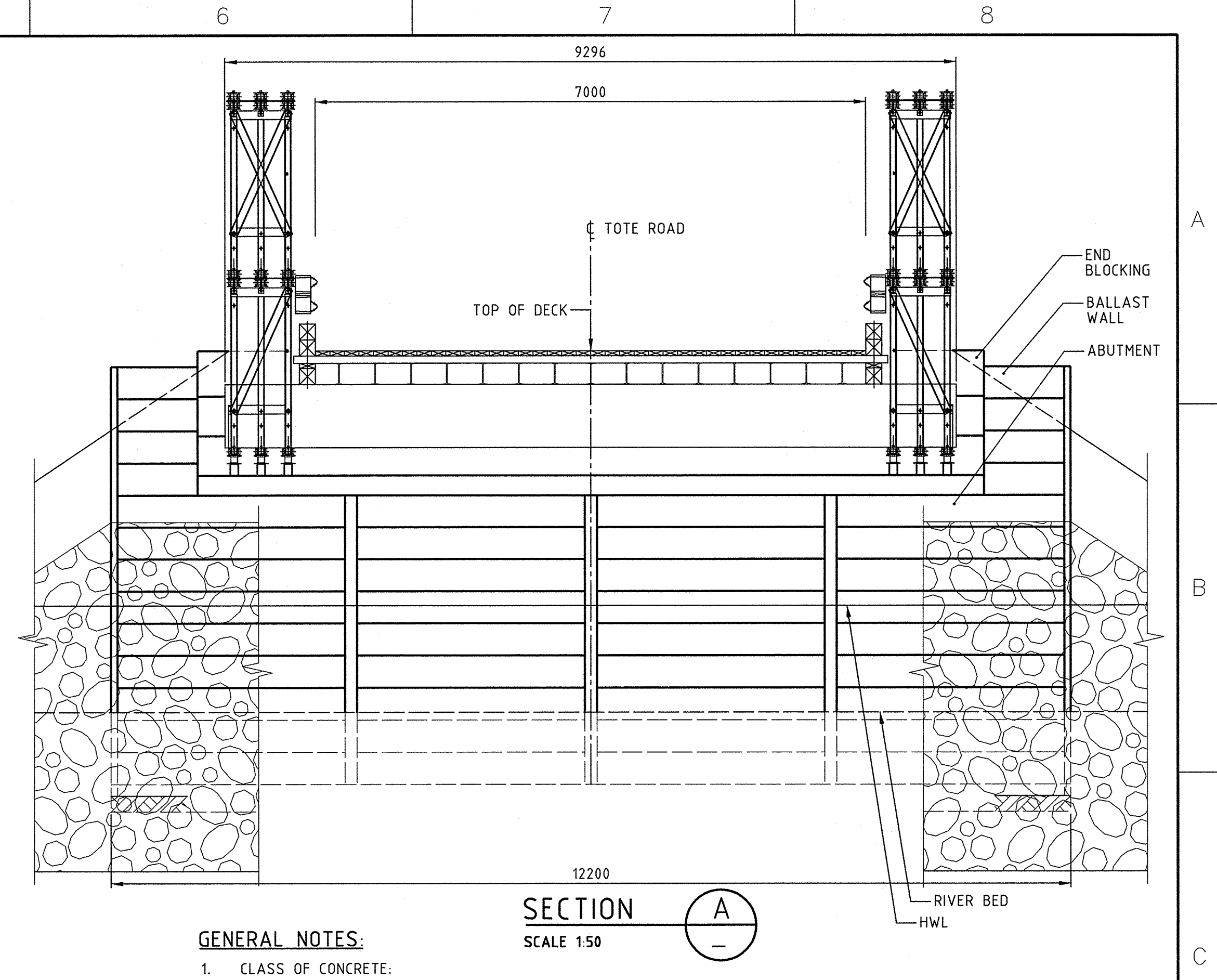
- THE MODULAR BRIDGE, LAUNCHING NOSE, ROLLERS, PRECAST CONCRETE BEARING PAD, END BLOCKING, STEEL BEAM GUIDE RAIL SYSTEM AND BRIDGE ABUTMENT COMPONENTS TO BE SUPPLIED BY BAFFINLAND (THE OWNER) ARE TO BE SHIPPED TO THE CROSSING SITE.
- ALL BACKFILL MATERIALS AND RIP RAP IS SUPPLIED BY BAFFINLAND (THE OWNER)
- ALL EXCAVATION ON SITE IS TO BE DONE BY OTHERS.
- THE CONTRACTOR IS RESPONSIBLE FOR ERECTING ALL COMPONENTS OF THE MODULAR BRIDGE AND BRIDGE ABUTMENTS AND BACKFILLING IN ACCORDANCE WITH THE MANUFACTURERS' SPECIFICATIONS.
- THE CONTRACTOR IS RESPONSIBLE FOR INSTALLING THE PRECAST CONCRETE BEARING PAD, END BLOCKING AND STEEL BEAM GUIDE RAIL SYSTEM.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS OF THE PROPOSED WORK AND ALL DETAILS ON SITE AND REPORT ANY DISCREPANCIES TO THE CONTRACT ADMINISTRATOR BEFORE PROCEEDING WITH THE WORK.
- THE CONTRACTOR SHALL ENSURE THE STABILITY OF ALL COMPONENTS DURING HANDLING, TRANSPORTATION AND ERECTION UNTIL THE COMPONENTS ARE IN THE FINAL LOCATION WITH ALL PERMANENT BRACING, CONNECTIONS AND SUPPORTS IN PLACE.
- GRADE AND ADD FILL ON THE EXISTING TOTE ROAD AS REQUIRED TO FACILITATE ONE WAY TRAFFIC ACROSS THE SEQUENCE DURING NEW BRIDGE LAUNCHING.

ABBREVIATION:

- | | |
|-------|------------------|
| ABUT. | ABUTMENT |
| BRGS. | BEARINGS |
| CL | CENTRELINE |
| ELEV. | ELEVATION |
| EXP. | EXPANSION |
| HWL | HIGH WATER LEVEL |
| NTS | NOT TO SCALE |
| TYP. | TYPICAL |
| T/D | TOP OF DECK |
| WP | WORKING POINT |

FOR CONSTRUCTION

DRAWING NO.		DRAWING TITLE		REFERENCE DRAWINGS	
1		2		3	
4		5		6	
7		8		9	
10		11		12	
13		14		15	
16		17		18	
19		20		21	
22		23		24	
25		26		27	
28		29		30	
31		32		33	
34		35		36	
37		38		39	
40		41		42	
43		44		45	
46		47		48	
49		50		51	
52		53		54	
55		56		57	
58		59		60	
61		62		63	
64		65		66	
67		68		69	
70		71		72	
73		74		75	
76		77		78	
79		80		81	
82		83		84	
85		86		87	
88		89		90	
91		92		93	
94		95		96	
97		98		99	
100		101		102	
103		104		105	
106		107		108	
109		110		111	
112		113		114	
115		116		117	
118		119		120	
121		122		123	
124		125		126	
127		128		129	
130		131		132	
133		134		135	
136		137		138	
139		140		141	
142		143		144	
145		146		147	
148		149		150	
151		152		153	
154		155		156	
157		158		159	
160		161		162	
163		164		165	
166		167		168	
169		170		171	
172		173		174	
175		176		177	
178		179		180	
181		182		183	
184		185		186	
187		188		189	
190		191		192	
193		194		195	
196		197		198	
199		200		201	
202		203		204	
205		206		207	
208		209		210	
211		212		213	
214		215		216	
217		218		219	
220		221		222	
223		224		225	
226		227		228	
229		230		231	
232		233		234	
235		236		237	
238		239		240	
241		242		243	
244		245		246	
247		248		249	
250		251		252	
253		254		255	
256		257		258	
259		260		261	
262		263		264	
265		266		267	
268		269		270	
271		272		273	
274		275		276	
277		278		279	
280		281		282	
283		284		285	
286		287		288	
289		290		291	
292		293		294	
295		296		297	
298		299		300	
301		302		303	
304		305		306	
307		308		309	
310		311		312	
313		314		315	
316		317		318	
319		320		321	
322		323		324	
325		326		327	
328		329		330	
331		332		333	
334		335		336	
337		338		339	
340		341		342	
343		344		345	
346		347		348	
349		350		351	
352		353		354	
355		356		357	
358		359		360	
361		362		363	
364		365		366	
367		368		369	
370		371		372	
373		374		375	
376		377		378	
379		380		381	
382		383		384	
385		386		387	
388		389		390	
391		392		393	
394		395		396	
397		398		399	
400		401		402	
403		404		405	
406		407		408	
409		410		411	
412		413		414	
415		416		417	
418		419		420	
421		422		423	
424		425		426	
427		428		429	
430		431		432	
433		434		435	
436		437		438	
439		440		441	
442		443		444	
445		446		447	
448		449		450	
451		452		453	
454		455		456	
457		458		459	
460		461		462	
463		464		465	
466		467		468	
469		470		471	
472		473		474	
475		476		477	
478		479		480	
481		482		483	
484		485		486	
487		488		489	
490		491		492	
493		494		495	
496		497		498	
499		500		501	
502		503		504	
505		506		507	
508		509		510	
511		512		513	
514		515		516	
517		518		519	
520		521		522	
523		524		525	
526		527		528	
529		530		531	
532		533		534	
535		536		537	
538		539		540	
541		542		543	
544		545		546	
547		548		549	
550		551		552	
553		554		555	
556		557		558	
559		560		561	
562		563		564	
565		566		567	
568		569		570	
571		572		573	
574		575		576	
577		578		579	
580		581		582	
583		584		585	
586		587		588	
589		590		591	
592		593		594	
595		596		597	
598		599		600	
601		602		603	
604		605		606	
607		608		609	
610		611		612	
613		614		615	
616		617		618	
619		620		621	
622		623		624	
625		626		627	
628		629		630	
631		632		633	
634		635		636	
637		638		639	
640		641		642	
643		644		645	
646		647		648	
649		650		651	
652		653		654	
655		656		657	
658		659		660	
661		662		663	
664		665		666	
667		668		669	
670		671		672	
673		674		675	
676		677		678	
679		680		681	
682		683		684	
685		686		687	
688		689		690	
691		692		693	
694		695		696	
697		698		699	
700		701		702	
703		704		705	
706		707		708	
709		710		711	
712		713		714	
715		716		717	
718		719		720	
721		722		723	
724		725		726	
727		728		729	
730		731		732	
733		734		735	
736		737		738	
739		740		741	
742		743		744	
745		746		747	
748		749		750	
751		752		753	
754		755		756	
757		758		759	
760		761		762	
763		764		765	
766		767		768	
769		770		771	
772		773		774	
775		776		777	
778		779		780	
781		782		783	
784		785		786	
787		788		789	
790		791		792	
793		794		795	
796		797		798	
799		800		801	
802		803		804	
805		806		807	
808		809		810	
811		812		813	
814		815		816	
817		818		819	
820		821		822	
823		824		825	
826		827		828	
829		830		831	
832		833		834	
835		836		837	
838		839		840	
841		842		843	
844		845		846	
847		848		849	
850		851		852	
853		854		855	
856		857		858	
859		860		861	
862		863		864	
865		866		867	
868		869		870	
871		872		873	
874		875		876	
877		878		879	
880		881		882	
883		884		885	



1. THE MODULAR BRIDGE, LAUNCHING NOSE, ROLLERS, PRECAST CONCRETE BEARING PAD, END BLOCKING, STEEL BEAM GUIDE RAIL SYSTEM AND BRIDGE ABUTMENT COMPONENTS TO BE SUPPLIED BY BAFFINLAND (THE OWNER) ARE TO BE SHIPPED TO THE CROSSING SITE.
2. ALL BACKFILL MATERIALS AND RIP RAP IS SUPPLIED BY BAFFINLAND (THE OWNER)
3. ALL EXCAVATION ON SITE IS TO BE DONE BY OTHERS.
4. THE CONTRACTOR IS RESPONSIBLE FOR ERECTING ALL COMPONENTS OF THE MODULAR BRIDGE AND BRIDGE ABUTMENTS AND BACKFILLING IN ACCORDANCE WITH THE MANUFACTURERS' SPECIFICATIONS.
5. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLING THE PRECAST CONCRETE BEARING PAD, END BLOCKING AND STEEL BEAM GUIDE RAIL SYSTEM.
6. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS OF THE PROPOSED WORK AND ALL DETAILS ON SITE AND REPORT ANY DISCREPANCIES TO THE CONTRACT ADMINISTRATOR BEFORE PROCEEDING WITH THE WORK.
7. THE CONTRACTOR SHALL ENSURE THE STABILITY OF ALL COMPONENTS DURING HANDLING, TRANSPORTATION AND ERECTION UNTIL THE COMPONENTS ARE IN THE FINAL LOCATION WITH ALL PERMANENT BRACING, CONNECTIONS AND SUPPORTS IN PLACE.
8. GRADE AND ADD FILL ON THE EXISTING TOTE ROAD AS REQUIRED TO FACILITATE ONE WAY TRAFFIC ACROSS THE SEQUENCE DURING NEW BRIDGE LAUNCHING.

DESIGNED BY L. GUO DATE 2013-08-23	DRAWN BY C. REN DATE 2013-08-23
CHECKED BY M. KARABELA DATE 2013-08-23	DISCIP. ENGR. J. TOLOVSKY DATE 2013-08-23
PROJ. DES. COORD. T. THERTELL DATE 2013-08-23	PROJ. ENGR. J. CLELAND DATE 2013-08-23
PROJ. MGR. S. PERRY DATE 2013-08-23	

SCALE	DWG. NO.	REV.
OR AS NOTED	H349000-3135-10-042-0001	0
ORIGINAL SHEET SIZE: ISO A1 (841 x 594)		

DRAWING NO.	DRAWING TITLE
REFERENCE DRAWINGS	

PERMIT TO PRACTICE
HATCH LTD.

Signature: [Signature]


Date: 30 Apr 83

PERMIT NUMBER: P 512

The Association of Professional Engineers,
Geodetic and Geophysicists of NW7/N1

THIS DOWING WAS PREPARED FOR THE EXCLUSIVE USE OF OFFHATCH AND
NO OTHER COOPERATION, FULFILLMENT AND IS ISSUED PURSUANT TO THE
AGREEMENT BETWEEN CLIENT AND HATCH LTD. (HATCH) UNLESS
OTHERWISE SPECIFIED IN WRITING. WITH REGARD TO SPECIFICATIONS ON THIS
DOWING, NO WORKMAN DOES NOT ACCEPT AND DISCLOSE ANY AND ALL
RELIANCE ON THIS DOWING BY ANY PARTY. HATCH LTD. (HATCH) DOES
NOT GUARANTEE THE ACCURACY OF THE INFORMATION AND (D) THIS
DOWING IS CONFIDENTIAL AND ALL INTELLECTUAL PROPERTY RIGHTS
RESERVED OR REFERENCED IN THIS DOWING BE LONG THE PROPERTY OF
HATCH LTD.

[illegible][illegible]

		
<p>MARY RIVER PROJECT</p>		
<p>TOTE ROAD RIVER CROSSING AT STA. 97 GENERAL ARRANGEMENT</p>		
SCALE	DWG. NO.	REV.
OR AS NOTED	H349000-3135-10-042-0001	0

Appendix C.5: Tote Road Culvert Sheet

Tote Road Culvert Sheet Data Sheet 1 of 5 (H349000-3000-10-088-0030, Rev. 1)

Tote Road Culvert Sheet Data Sheet 2 of 5 (H349000-3000-10-088-0031, Rev. 1)

Tote Road Culvert Sheet Data Sheet 3 of 5 (H349000-3000-10-088-0032, Rev. 1)

Tote Road Culvert Sheet Data Sheet 4 of 5 (H349000-3000-10-088-0033, Rev. 1)

Tote Road Culvert Sheet Data Sheet 5 of 5 (H349000-3000-10-088-0034, Rev. 4)

Culvert ID	KP Chainage	Hatch Chainage	Distance	Fish Bearing Status	Number of Pipes	Existing Diameter	Proposed Diameter	Existing Length	Proposed Length	E	W	Culvert C/L At Upstream	U/S INV. ELV.	Rip Rap Required	Culvert C/L At Downstream	D/S INV. ELV.	Rip Rap Required	C	Rip Apron Length	Slope	Skew Degree	What To Do	Comments	
	(m)	(m)	(km)	(Y/N/P)	(n)	(m)	(m)	(m)	(m)	(mm)	(mm)	Northing	Easting	(m)	(Y/N)	Northing	Easting	(m)	(Y/N)	(mm)	(m)	(%)		
CV178A		+40	+40	NO	1		0.5		12		500			N				N	300				New	
CV178B		+542	+542	NO	1		0.5		12.5		500			N				N	300				New	
CV178C		+733	+733	NO	1		0.5		13.5		500			N				N	300				New	
CV178D		+848	+848	NO	1		0.5		17.5		500			N				N	300				New	
CV178E		1+655	1+655	NO	1		0.5		17		500			N				N	300				New	
CV174A	A3+429	1+963	1+963	NO	1	0.5		9	18		500		55.682	N			55.397	N	300		3.17	Extend	Extend 9m left	
CV174B	A3+877	2+407	2+407	NO	1	0.15		11					51.303	N			51.132	N			1.55	Abandon		
CV174C	A3+987	2+517	2+517	NO	1	0.15	0.5	10.3	11		500		50.882	N			50.728	N	300		1.50	Replace	Replace with new length of 11m	
CV173	A4+184	2+710	2+710	POTENTIAL	1	0.5		12	15.5		500			N				N	300			Extend	Extend 3.5m left	
CV171	A4+582	3+109	3+109	NO	1	0.15	0.5	11	14		500		52.543	N			52.031	N	300		4.65	Replace	Replace with new length of 14m	
CV170	A4+984	3+510	3+510	POTENTIAL	1			12			1000		45.630	N			45.038	Y	500	4	4.93	No Change		
CV169	A5+149	3+673	3+673	NO	1	0.5		9	12.5		500		46.834	N			46.541	N	300		3.26	Extend	Extend 3.5m right	
CV167	A4+198	4+198	4+198	POTENTIAL	1	0.5		15	17.5		500			N				N	300			Extend	Extend 2.5m right	
CV166A	A5+770	4+242	4+242	POTENTIAL	2	1		15	23.5		2000			N				Y	500	4		Extend		
CV166B		4+243	4+243	POTENTIAL	2	0.5		15	22.5	50	2000			N				N	300			Extend		
CV165A	A6+746	5+258	5+258	NO	1	1.2		22.1			1200		43.725	N			42.568	Y	500	4.8	5.24	No Change		
CV164A	A6+999	5+523	5+523	NO	1	0.5		18	19		500		56.994	N			56.135	Y	300	2	4.77	Extend	Extend 1m right	
CV164B	A7+249	5+725	5+725	NO	1	0.15		10.8					52.511	N			52.357	N			1.43	Abandon		
CV164C		5+767	5+767	NO	1		0.5		26.5		500			N				N	300			New		
CV162	A7+625	6+135	6+135	NO	1	1		9.5	18		1000		43.897	N			43.569	Y	500	4	3.45	Extend	Extend 8.5m right	
CV161	A7+928	6+432	6+432	NO	1	0.5		9.9	23.9		500		40.280	N			39.643	Y	300	2	6.43	Extend	Extend 14m right	
CV159	A8+100	6+601	6+601	POTENTIAL	1	1		12	23.5		1000		25.564	N			25.293	Y	500	4	2.26	Extend	Extend 4.5m left & 7m right	
CV158A	A8+345	6+848	6+848	NO	2	0.5		12	16		1300		33.423	N			32.814	Y	300	2	5.08	Extend	Extend 3m left & 1m right	
CV158B	A8+347	6+850	6+850	NO	2	0.5		18	19		1300		34.004	N			31.212	Y	300	2	15.51	Extend	Extend 1m right	
CV157A	A8+657	7+164	7+164	POTENTIAL	2	1		12	20.5		2000		37.359	N			37.018	Y	500	4	2.84	Extend	Extend 5.5m left & 3m right	
CV157B	A8+662	7+164	7+164	POTENTIAL	2	0.5		12	20	50	2000		37.357	N			37.315	N	300		0.35	Extend	Extend 5m left & 3m right	
CV155A	A8+997	7+521	7+521	NO	1	0.25	0.5	12	14.5		500		37.418	N			36.466	Y	300	2	7.93	Replace	Replace with new length of 14.5m	
CV155B	A9+003	7+524	7+524	NO	1	0.15		13.7					37.821	N			37.214	N			4.43	Abandon		
CV155C	A9+003	7+525	7+525	NO	1	0.15		13.7					37.815	N			37.353	N			3.37	Abandon		
CV155D	A9+145	7+679	7+679	NO	1	0.5		12	14		500		33.294	N			32.947	N	300		2.89	Extend	Extend 2m right	
CV154A	A9+241	7+782	7+782	POTENTIAL	2	0.5		15	28		1800		30.500	N			30.154	N	300		2.31	Extend	Extend 9m left & 4m right	
CV154B	A9+249	7+783	7+783	POTENTIAL	2	1		15	26.5	100	1800		30.662	N			30.154	Y	500	4	3.39	Extend	Extend 7m left & 4.5m right	
CV153C		8+315	8+315	POTENTIAL	1		0.5		11		500			N				N	300			New		
CV153A	A9+892	8+375	8+375	POTENTIAL	1	0.5		12					37.332	N			37.287	N			0.38	Remove		
CV153B	A9+848	8+377	8+377	POTENTIAL	1	0.5		12					37.510	N			37.224	N			2.38	Remove		
CV153C	A9+849	8+379	8+379	POTENTIAL	1	0.5		12					37.518	N			37.400	N			0.98	Remove		
CV153D	A9+850	8+381	8+381	POTENTIAL	1	0.5		12					37.511	N			37.382	N			1.08	Remove		
CV152A	A9+950	8+480	8+480	POTENTIAL	1	0.5		22					42.678	N			41.147	N			6.96	Remove		
CV152B	A9+939	8+482	8+482	POTENTIAL	1	0.5		22					42.719	N			41.060	N			7.54	Remove		
CV152C	A9+940	8+485	8+485	POTENTIAL	1	0.5		22					42.753	N			41.032	N			7.82	Remove		
CV152D	A9+941	8+487	8+487	POTENTIAL	1	0.5		22					42.844	N			41.183	N			7.55	Remove		
CV152E	A9+943	8+490	8+490	POTENTIAL	1	0.5		22					42.807	N			41.164	N			7.47	Remove		
CV152F		8+520	8+520	POTENTIAL	1		1		22		1000			N				Y	500	4		New		
CV151A	A10+127	8+640	8+640	POTENTIAL	3	0.5		12	13.5		2100		62.772	N			62.251	N	300		4.34	Extend	Extend 1.5m right	
CV151B	A10+102	8+642	8+642	POTENTIAL	3	0.5		12	14	50	2100		62.789	N			62.307	N	300		4.02	Extend	Extend 1m left & 1m right	
CV150A	A10+125	8+663	8+663	NO	3	0.5		12	21		2100		63.131	N			62.515	Y	300	2	5.13	Extend	Extend 9m left	
CV150B	A10+127	8+665	8+665	NO	1	0.5		12	21		500		63.216	N			62.499	Y	300	2	5.97	Extend	Extend 9m left	
CV150C	A10+441	8+975	8+975	NO	1	0.5		12	14		500		61.044	N			60.704	N	300		2.83	Extend	Extend 2m right	
CV150D	A10+609	9+140	9+140	NO	1	0.25		12					62.864	N			62.684	N			1.50	Abandon		
CV149	A10+623	9+124	9+124	NO	1	0.25	0.5	12	14.5		500		62.633	N			61.896	Y	300	2	6.14	Replace	Replace with new length of 14.5m	
CV148A	A10+846	9+373	9+373	NO	1	0.25		12					66.098	N			65.793	N			2.54	Abandon		
CV148B	A10+847	9+374	9+374	NO	1	0.25		12					66.004	N			65.828	N			1.47	Abandon		
CV148C		9+373	9+373	NO	1		0.5		18		500			N				N	300			New		
CV146A	A11+014	9+544	9+544	NO	1	0.5		12					66.383	N			66.259	N			1.03	Remove		
CV146B	A11+017	9+546	9+546	NO	1	0.5	1	12	18		1000		66.446	N			66.226	Y	500	4	1.83	Replace	Replace with new length of 18m	
CV146C	A11+019	9+549	9+549	NO	1	0.5		12					66.487	N			66.059	N			3.57	Remove		
CV146D	A11+018	9+551	9+551	NO	1	0.5		12					66.410	N			66.225	N			1.54	Remove		
CV146E	A11+017	9+553	9+553	NO	1	0.5		12					66.437	N			66.205	N			1.93	Remove		
CV144	A11+856	10+368	10+368	NO	1	0.5		9	11.5		500		83.517	N			83.426	N	300		1.01	Extend	Extend 2.5m left	
CV137A	A12+704	11+213	11+213	NO	1	0.25	0.5	12	15.5		500		95.660	N			95.099	Y	300	2	4.67	Replace	Replace with new length of 15.5m	
CV137B	A12+848	11+359	11+359	NO	1	0.25	0.5	9	14		500		97.386	N			96.482	Y	300	2	10.04	Replace	Replace with new length of 14m	
CV136	A13+093	11+603	11+603	NO	1	0.25	0.5	18	13.5		500		91.811	N			91.227	N	300		3.24	Replace	Replace with new length of 13.5m	
CV135	A13+327	11+838	11+838	NO	1	0.25	0.5	12	21.5		500		90.799	N			90.455	N	300		2.87	Replace	Replace with new length of 21.5m	
CV134A	A13+674	12+183	12+183	NO	1	0.25	0.5	12	12.5		500		81.258	N			80.464	Y	300	2	6.62	Replace	Replace with new length of 12.5m	
CV134B	A13+749	12+258	12+258	NO	1	0.5		12					79.198	N			78.542	N			5.47	Abandon		
CV134C	A13+851	12+360	12+360	NO	1	0.25	0.5	12	11		500		79.064	N			78.526	Y	300	2	4.48	Replace	Replace with new length of 11m	
CV133A	A13+859	12+369	12+369	NO	1	0.25	0.5	12	11		500		78.806	N			78.240	Y	300	2	4.72	Replace	Replace with new length of 11m	
CV133B	A13+953	12+462	12+462	NO	1	0.25	0.5	9	16.5		500		78.098	N			77.844	N	300		2.82	Replace	Replace with new length of 16.5m	
CV133C	A14+189	12+643	12+643	NO	1	0.5		12					79.649	N			79.390	N			2.16	Abandon</		